



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

PIEDMONT REGIONAL OFFICE

4949-A Cox Road, Glen Allen, Virginia 23060

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www.deq.virginia.gov

Matthew J. Strickler
Secretary of Natural Resources

David K. Paylor
Director

James J. Golden
Regional Director

June 26, 2018

Ms. Angela Stimpson
Executive Director
Longwood University
201 High Street
Farmville, Virginia 23909

Location: Prince Edward County
Registration No.: 30360

Dear Ms. Stimpson:

Attached is a Title V permit to operate your facility pursuant to 9VAC5 Chapter 80 of the Virginia Regulations for the Control and Abatement of Air Pollution.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all conditions carefully.

This approval to operate does not relieve Longwood University of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit is a case decision. The Regulations, at 9VAC5-170-200, provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this permit is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

Mr. David K. Paylor, Director
Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218

In the event that you receive this permit by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit, please contact the regional office at 804-527-5020.

Sincerely,



Kyle Ivar Winter, P.E.
Deputy Regional Director

JEK/JH/30360 8 18 TV

Attachment: Permit

cc: Director, OAPP (electronic file submission)
Director, Office of Permits and Air Toxics (3AP10), U.S. EPA, Region III (electronic file submission)
Manager/Inspector, Air Compliance (electronic file submission)



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Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9VAC5-80-50 through 9VAC5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: Longwood University
Facility Name: Longwood University
Facility Location: 201 High Street
Farmville, Virginia

Registration Number: 30360
Permit Number: PRO-30360

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Pages 8 through 34)

June 26, 2018
Effective Date

Deputy Regional Director

June 25, 2023
Expiration Date

June 26, 2018
Signature Date

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Facility Information

Permittee/Facility
Longwood University
201 High Street
Farmville, Virginia 23909

Responsible Official
Angela Stimpson
Executive Director

Contact Person
Ben Myers
Facilities Operation Manager
434-395-2740

County-Plant Identification Number: 51-147-00009

Facility Description: NAICS 61130 – Longwood University (LU) is a public funded institute for higher education. LU operates a steam generating facility for space heating and hot water to various buildings on campus.

Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description*	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment – Steam Generating Plant							
B-1	-	Keeler model NB 4922 boiler – distillate oil	50.0 MMBtu/hr	-	-	-	May 30, 2018
B-4	-	Bigelow model 879 boiler – distillate oil	26.0 MMBtu/hr	-	-	-	May 30, 2018
B-6	S06	Hurst model HYB-600-150 boiler or equivalent – biomass, distillate oil, natural gas and propane	29.64 MMBtu/hr	Multicyclone Overfire Air/ low NOx burners	-	PM NOx	May 30, 2018
B-7	S07	Hurst model HYB-600-150 boiler or equivalent – biomass, distillate oil, natural gas and propane	29.64 MMBtu/hr	Multicyclone Overfire Air/ low Nox burners	-	PM NOx	May 30, 2018
B-8	S08	Hurst model HYB-600-150 boiler or equivalent – biomass, distillate oil, natural gas and propane	40.74 MMBtu/hr	Baghouse Overfire Air/ low NOx burners	-	PM NOx	May 30, 2018
B-9	-	Peerless model 0-722-FDA-SUP boiler – distillate oil	2.791 MMBtu/hr	-	-	-	May 30, 2018

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description *	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment – Emergency Engine-Generators							
G1	-	Diesel Emergency Engine-Generator 1995	100 kW	-	-	-	-
G2	-	Diesel Emergency Engine-Generator 2003	80 kW	-	-	-	-
G3	-	Diesel Emergency Engine-Generator 1998	60 kW	-	-	-	-
G4	-	Diesel Emergency Engine-Generator 2006	80 kW	-	-	-	-
G5	-	Diesel Emergency Engine-Generator 2003	35 kW	-	-	-	-
G6	-	Diesel Emergency Engine-Generator 1992	50 kW	-	-	-	-
G7	-	Propane Emergency Engine-Generator 2010	8 kW	-	-	-	-
G8	-	Diesel Emergency Engine-Generator 2010	100 kW	-	-	-	-
G9	-	Diesel Emergency Engine-Generator 2011	83 kW	-	-	-	-

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description *	PCD ID	Pollutant Controlled	Applicable Permit Date
G10	-	Diesel Emergency Engine-Generator 2007	150 kW	-	-	-	-
G11	-	Diesel Emergency Engine-Generator 2007	250 kW	-	-	-	-
G12	-	Diesel Emergency Engine-Generator 2013	300 kW	-	-	-	-
G13	-	Diesel Emergency Engine-Generator 2007	200 kW	-	-	-	-
G14	-	Diesel Emergency Engine-Generator 2007	200 kW	-	-	-	-
G15	-	Diesel Emergency Engine-Generator 2007	60 kW	-	-	-	-
G16	-	Diesel Emergency Engine-Generator 2007	60 kW	-	-	-	-
G17	-	Diesel Emergency Engine-Generator 2013	40 kW	-	-	-	-
G18	-	Diesel Emergency Engine-Generator 2006	350 kW	-	-	-	-

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description *	PCD ID	Pollutant Controlled	Applicable Permit Date
G19	-	Diesel Emergency Engine-Generator 2017	100 kW	-	-	-	-

*The Size/Rated capacity, and PCD efficiency is provided for informational purposes only, and is not an applicable requirement.

Steam Generating Plant Requirements - (B-1, 4, 6, 7, 8 & 9)

1. **Steam Generating Plant Requirements - (emission unit ID# B-6 & B-7) - Limitations -**
Particulate Matter emissions from each of the B-6 and B-7 boilers shall be controlled by multicyclone(s). The multicyclone(s) shall be provided with adequate access for inspection and shall be in operation when the boiler(s) are operating.
(9VAC5-80-110 and Condition 1 of 5/30/2018 Permit)
2. **Steam Generating Plant Requirements - (emission unit ID# B-8) - Limitations –**
Particulate matter emissions from the B-8 boiler shall be controlled by the use of a fabric filter when the boiler is firing on biomass. The fabric filter shall be provided with adequate access for inspection and shall be in operation when the boiler is operating.
(9VAC5-80-110 and Condition 2 of 5/30/2018 Permit)
3. **Steam Generating Plant Requirements - (emission unit ID# B-6, 7 & 8) - Limitations –**
Nitrogen Oxide (as NO₂) emissions from each of the B-6, B-7 and B-8 boilers shall be controlled by the use of overfire air when burning biomass and low NO_x burners when burning distillate oil. The overfire air system and low NO_x burners shall be provided with adequate access for inspection and shall be in operation when the boiler(s) are operating.
(9VAC5-80-110 and Condition 3 of 5/30/2018 Permit)
4. **Steam Generating Plant Requirements - (emission unit ID# B-1, 4 & 9) - Limitations –**
The approved fuel for the boilers is distillate oil. A change in the fuel may require a permit to modify and operate.
(9VAC5-80-110 and Conditions 8, 9 and 10 of 5/30/2018 Permit)
5. **Steam Generating Plant Requirements - (emission unit ID# B-6, 7 & 8) - Limitations -**
The approved fuel for the boilers are biomass, distillate oil, propane and natural gas. A change in the fuel may require a permit to modify and operate.
(9VAC5-80-110 and Condition 11 of 5/30/2018 Permit)
6. **Steam Generating Plant Requirements - (emission unit ID# B-1 & B-4) - Limitations –**
The Keeler model NB 4922 (B-1) and the Bigelow model 879 (B-4) boilers shall, in combination, consume no more than 400,000 gallons of distillate oil combined per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 12 of 5/30/2018 Permit)
7. **Steam Generating Plant Requirements - (emission unit ID#B-6 & 7) - Limitations -**
Boilers B-6 and B-7, in combination, shall consume no more than 867,000 gallons of distillate oil per year or 119,000,000 scf of natural gas or 1,348,666 gallons of propane or a combination of the three not to exceed 121,380 MMBtu per year (based on 140

MMBtu/1,000 gal of oil, 1,020 Btu/scf of natural gas and 90,000 Btu/gal of propane), calculated monthly as the sum of each consecutive 12 month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

(9VAC5-80-110 and Condition 13 of 5/30/2018 Permit)

8. **Steam Generating Plant Requirements - (emission unit ID#B-6 & 7) - Limitations** – Boilers B-6 and B-7, in combination, shall consume no more than 33,800 tons of biomass per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 14 of 5/30/2018 Permit)
9. **Steam Generating Plant Requirements - (emission unit ID#B-8) - Limitations** – Boiler B-8 shall consume no more than 35,200 tons of biomass per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 15 of 5/30/2018 Permit)
10. **Steam Generating Plant Requirements - (emission unit ID#B-8) - Limitations** – Boiler B-8 shall consume no more than 433,000 gallons of distillate oil per year or 59,431,373 scf of natural gas or 673,556 gallons of propane or a combination of the three not to exceed 60,620 MMBtu per year (based on 140 MMBtu/1,000 gal of oil, 1,020 Btu/scf of natural gas and 90,000 Btu/gal of propane), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 16 of 5/30/2018 Permit)
11. **Steam Generating Plant Requirements - (emission unit ID#B-9) - Limitations** – The Peerless model 0-722-FDA-SUP (B-9) boiler shall consume no more than 30,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110 and Condition 17 of 5/30/2018 Permit)
12. **Steam Generating Plant Requirements - (emission unit ID#B-1, 4, 6, 7, 8 & 9) - Limitations** - The distillate oil and biomass shall meet the specifications below:

DISTILLATE OIL which meets the ASTM D396 specification for numbers 1 or 2 fuel oil:
Maximum sulfur content per shipment: 0.5%

BIOMASS:

Minimum heat content: 4565 Btu/lb HHV as determined by ASTM D1826 or
DEQ-approved equivalent method

(9VAC5-80-110, 40 CFR 60.42c(d)&(i) and Condition 18 of 5/30/2018 Permit)

13. Steam Generating Plant Requirements - (emission unit ID#B-6, 7& 8) - Limitations -

Biomass shall meet the following definition: Biomass is defined as “any biomass-based solid fuel that is not a solid waste. This includes, but is not limited to: wood residue and wood products (e.g., trees, tree stumps, tree limbs, bark, lumber, sawdust, sander dust, chips, scraps, slabs, millings, and shavings); vegetative agricultural and silvicultural materials, such as logging residues (slash), nut and grain hulls and chaff (e.g., almond, walnut, peanut, rice, and wheat), bagasse, orchard prunings, corn stalks, coffee bean hulls and grounds. These fuels are not secondary materials or solid wastes unless discarded. “Warm season grasses” are to be included in the definition of biomass.¹

(9VAC5-80-110 and Condition 19 of 5/30/2018 Permit)

14. Steam Generating Plant Requirements - (emission unit ID#B-6, 7 & 8) - Limitations –

Except where this permit is more restrictive than the applicable requirement, boilers B-6, B-7, and B-8 shall be operated in compliance with the requirements of 40 CFR 60, Subpart Dc.

(9VAC5-80-110, 40 CFR 60 Subpart Dc and Condition 22 of 5/30/2018 Permit)

15. Steam Generating Plant Requirements - (emission unit ID#B-1) - Limitations –

Emissions from the operation of the Keeler model NB 4922 (B-1) boiler shall not exceed the limits specified below:

Particulate Matter (PM)	1.2 lb/hr
PM10	1.2 lb/hr
Sulfur Dioxide	25.72 lb/hr
Nitrogen Oxides	7.25 lb/hr
Carbon Monoxide	1.81 lb/hr

9VAC5-80-110 and Condition 23 of 5/30/2018 Permit)

¹ The definition of biomass is taken from 40 CFR Part 63, Subpart JJJJJ – National Emission Standards for Hazardous Air Pollutants – Industrial, Commercial and Institutional Boilers – Area Sources

16. **Steam Generating Plant Requirements - (emission unit ID#B-4) - Limitations –**
Emissions from the operation of the Bigelow model 879 (B-4) boiler shall not exceed the limits specified below:

Particulate Matter (PM)	0.62 lb/hr
PM10	0.62 lb/hr
Sulfur Dioxide	13.38 lb/hr
Nitrogen Oxides	3.77 lb/hr
Carbon Monoxide	0.94 lb/hr

(9VAC5-80-110 and Condition 24 of 5/30/2018 Permit)

17. **Steam Generating Plant Requirements - (emission unit ID#B-1 & 4) - Limitations –**
Emissions from the operation of the Keeler model NB 4922 (B-1) and Bigelow model 879 (B-4) boilers combined shall not exceed the limits specified below:

Particulate Matter (PM)	0.7 ton/yr
PM-10	0.5 ton/yr
Sulfur Dioxide	14.2 ton/yr
Nitrogen Oxides	4.0 ton/yr
Carbon Monoxide	1.0 ton/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 6, 12 and 33.

(9VAC5-80-110 and Condition 25 of 5/30/2018 Permit)

18. **Steam Generating Plant Requirements - (emission unit ID#B-6 & 7) - Limitations –**
Emissions from the operation of each of boilers B-6 and B-7, shall not exceed the limits specified below:

Particulate Matter (PM)	
Non-condensable	0.30 lbs/MMBtu
Condensable	0.5 lbs/hr
PM-10	9.4 lbs/ hr
PM2.5	6.2 lbs/hr

Sulfur Dioxide	15.1 lbs/hr
Nitrogen Oxides	6.5 lbs/hr
Carbon Monoxide	17.8 lbs/hr
Volatile Organic Compounds	0.5 lbs/hr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 1, 3, 7, 8, 12, 13, 33, and 34.
 (9VAC5-80-110 and Condition 26 of 5/30/2018 Permit)

19. **Steam Generating Plant Requirements - (emission unit ID#B-6 & 7) - Limitations** – Total emissions from the operation of boilers B-6 and B-7, shall not exceed the limits specified below:

Particulate Matter (PM) (including condensable PM)	50.3 ton/yr
PM-10	49.9 tons/yr
PM2.5	32.6 tons/yr
Sulfur Dioxide	34.6 tons/yr
Nitrogen Oxides	39.6 tons/yr
Carbon Monoxide	97.6 tons/yr
Volatile Organic Compounds	3.0 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 1, 3, 7, 8, 12, 13, 33, and 34.
 (9VAC5-80-110 and Condition 27 of 5/30/2018 Permit)

20. **Steam Generating Plant Requirements - (emission unit ID#B-8) - Limitations** – Total emissions from the operation of boiler B-8 shall not exceed the limits specified below:

Particulate Matter (PM)	0.030 lbs/MMBtu	
(including condensable PM)	1.2 lbs/hr	5.5 tons/yr
PM-10	1.2 lbs/ hr	5.3 tons/yr

PM-2.5	1.2 lbs/ hr	5.2 tons/yr
Sulfur Dioxide	20.7 lbs/hr	19.4 tons/yr
Nitrogen Oxides	9.0 lbs/hr	38.2 tons/yr
Carbon Monoxide	24.4 lbs/hr	98.9 tons/yr
Volatile Organic Compounds	0.7 lbs/hr	2.9 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 2, 3, 9, 10, 12, 13, 33, 34, and 29.
(9VAC5-80-110, 40 CFR 63.11201(a) Table 1(3), and Condition 28 of 5/30/2018 Permit)

21. **Steam Generating Plant Requirements - (emission unit ID#B-9) - Limitations** – Emissions from the operation of the Peerless model 0-722-FDA-SUP (B-9) boiler shall not exceed the limits specified below:

Particulate Matter (PM)	0.35 lb/MMBTU	1.0 lb/hr	0.7 ton/yr
PM-10	0.35 lb/MMBTU	1.0 lb/hr	0.7 ton/yr
Sulfur Dioxide		7.4 lb/hr	5.5 ton/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 11 and 12.
(9VAC5-80-110, 9 VAC 5-40-900, 9 VAC 5-40-930 and Condition 29 of 5/30/2018 Permit)

22. **Steam Generating Plant Requirements - (emission unit ID# B-1, 4, 6, 7, 8 & 9) - Limitations** – Total emissions from the steam generating facility shall not exceed the limits specified below:

Particulate Matter (PM) (including condensable PM)	57.2 tons/yr
PM-10	56.4 tons/yr
PM-2.5	38.1 tons/yr

Sulfur Dioxide	73.7 tons/yr	
Nitrogen Oxides (as NO ₂)	82.0 tons/yr	
Carbon Monoxide	197.6 tons/yr	
Volatile Organic Compounds	5.9 tons/yr	
Hazardous Air Pollutants (HAP)	6.1 tons/yr of a single HAP	12.5 tons/yr combined

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 1,2, 3, 6, 7, 8, 9, 10, 11, 12, 13, 33, and 34. (9VAC5-80-110 and Condition 30 of 5/30/2018 Permit)

23. **Steam Generating Plant Requirements - (emission unit ID# B-1, 4, & 9) - Limitations –** Visible emissions from the Keeler model boiler NB 4922 (B-1), the Bigelow model 879 (B-4), and the Peerless model 0-722-FDA-SUP (B-9) each shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). (9VAC 5-40-20, 9 VAC 5-40-940 and 9VAC5-80-110 Conditions 31, 34, & 35 of 5/30/2018 Permit)
24. **Steam Generating Plant Requirements - (emission unit ID# B-6 & 7) - Limitations –** Visible emissions from boilers B-6 and B-7 shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 27 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction. (9VAC5-80-110 and Condition 32 of 5/30/2018 Permit)
25. **Steam Generating Plant Requirements - (emission unit ID# B-8) - Limitations –** Visible emissions from boiler B-8 shall not exceed 10 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction. (9VAC5-80-110 and Condition 33 of 5/30/2018 Permit)

26. **Steam Generating Plant Requirements - (emission unit ID# B-8) - Limitations** – The portions of this permit to construct the B-8 boiler shall become invalid, unless an extension is granted by the DEQ, if:
- a. A program of continuous construction or modification is not commenced within 18 months from the date of this permit.
 - b. A program of construction or modification is discontinued for a period of 18 months or more, or is not completed within a reasonable time, except for a DEQ approved period between phases of the phased construction of a new stationary source or project.
- (9VAC5-80-110 and Condition 43 of 5/30/2018 Permit)
27. **Steam Generating Plant Requirements - (emission unit ID# B-1, 4, 6, 7, 8 & 9) – Federal Requirements** – The boilers are subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources (MACT, Subpart JJJJJ). The requirements are as follows:

Unit	Size	Year	Citation	Requirement
B-1 (distillate oil)	50.0 MMBtu/hr	1973	63.11200(c) 63.11201(b) & Table 2(4) & (16) 63.11205(a) 63.11214(c) 63.11223(a)(b) 63.11225(a)(1)&(b)(c)(d) 63.11235 & Table 8	Existing oil-fired boiler, conduct tune-up biennially & one-time energy assessment
B-4 (distillate oil)	26.0 MMBtu/hr	1963	63.11200(c) 63.11201(b) & Table 2(4) & (16) 63.11205(a) 63.11214(c) 63.11223(a)(b) 63.11225(a)(1)&(b)(c)(d) 63.11235 & Table 8	Existing oil-fired boiler, conduct tune-up biennially & one-time energy assessment
B-6 (biomass, distillate oil, natural gas & propane)	29.64 MMBtu/hr	2004	63.11200(f) 63.11201(b) & Table 2(14) 63.11205(a) 63.11223(a)(c) 63.11225(a)(1)&(b)(c)(d) 63.11235 & Table 8	Existing biomass-fired boiler, conduct tune-up every 5 yrs
B-7 (biomass, distillate oil, natural gas & propane)	29.64 MMBtu/hr	2008	63.11200(f) 63.11201(b) & Table 2(14) 63.11205(a) 63.11223(a)(c) 63.11225(a)(1)&(b)(c)(d)	Existing biomass-fired boiler, conduct tune-up every 5 yrs

propane)			63.11235 & Table 8	
B-8 (biomass, distillate oil, natural gas & propane)	40.74 MMBtu/hr	2017	63.11200(f) 63.11201(a)(b)(c)(d) & Tables 1(3), 2(15), 3(1)(7) 63.11205(a)(b) 63.11210(a)(d)(g) 63.11211(a)&(b)(4) 63.11212(a)(b)(c)(d)(e) 63.11214(b)(d) 63.11220(a) 63.11222(a)(1)(2)(4)&(b) & Table 7(2)(9) 63.11223(a)(c)(g) 63.11224(b)(f) 63.11225(a)(1)(4)&(b)(c)(d)(e)(1) 63.11235 & Table 8	New biomass- fired boiler, PM limit, conduct tune-up every 5 yrs, compliance through stack testing & bag leak detection system
B-9 (distillate oil)	2.791 MMBtu/hr	1990	63.11200(e) 63.11201(b) & Table 2(12) 63.11205(a) 63.11223(a)(e) 63.11225(a)(1)&(b)(c)(d) 63.11235 & Table 8	Existing oil-fired boiler, conduct tune-up every 5 yrs

(9 VAC 5-80-110 and 40 CFR 63, Subpart JJJJJ)

28. **Steam Generating Plant Requirements - (emission unit ID# B-6 & 7) - Monitoring -** The multicyclones shall be equipped with devices to continuously measure differential pressure drop. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the multicyclone is operating.
(9VAC5-80-110, 9 VAC 5-50-20C, and Condition 4 of 5/30/2018 Permit)
29. **Steam Generating Plant Requirements - (emission unit ID# B-8) - Monitoring -** The fabric filter for B-8 shall be equipped with a bag leak detection system. A bag leak detection system includes, but is not limited to, an instrument that operates on electrodynamic, triboelectric, light scattering, light transmittance, or other principle to monitor relative particulate matter loadings. The instrument must be capable of detecting particulate emissions at concentrations reflective of normal operation or 0.01 grains/dscf, whichever is lower. The signal from the bag break detector shall be recorded continuously.
(9VAC5-80-110, 9 VAC 5-50-20C, and Condition 5 of 5/30/2018 Permit)
30. **Steam Generating Plant Requirements - (emission unit ID# B-8) - Monitoring -** The monitoring device required in Condition 29 shall be installed, maintained, calibrated and

operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. The monitoring device shall be provided with adequate access for inspection and shall be in operation when the respective control device or emission unit is operating. Part of the approved operating procedure for each monitor shall define action levels and the responses taken when action levels are exceeded.

(9VAC5-80-110 and Condition 6 of 5/30/2018 Permit)

31. **Steam Generating Plant Requirements - (emission unit ID#B-6 & 7) - Monitoring** – To ensure good performance, the multicyclone control monitoring devices used to continuously measure differential pressure drop shall each be observed by the permittee with a frequency of not less than once per week when the associated boiler is in operation. The permittee shall keep a log of the observations from the control monitoring devices. In the event that the differential pressure is not within the manufacturer's recommended operating ranges, the permittee shall take necessary corrective actions such that the multicyclone resumes proper operation. The permittee shall maintain an observation log to demonstrate compliance. The log shall include the date and time of the observations, whether or not the differential pressure drop was operating within the operating ranges and any necessary corrective actions taken.
(9 VAC 5-80-110)
32. **Steam Generating Plant Requirements - (emission unit ID#B-1, 4, 6, 7, 8 & 9) - Monitoring** - The permittee shall perform a visible emission observation (VEO) in accordance with 40 CFR 60, Appendix A, Method 22 on the exhaust stack of each of the boilers at least one time per month during periods of normal operation that the boilers are operated. If visible emissions are observed, the permittee shall take timely corrective actions such that the boilers resume operation with no visible emissions, or perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from boilers B-1, 4, 6, 7, & 9 do not exceed 20 percent opacity and from boiler B-8 do not exceed 10 percent opacity. The VEE shall be conducted for a minimum of six minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boilers resume operation with visible emissions of 20 percent or less for boilers B-1, 4, 6, 7, & 9 and 10 percent or less for boiler B-8. The permittee shall maintain an observation log to demonstrate compliance. The log shall include the date and time of the observations, whether or not there were visible emissions, any VEE recordings and any necessary actions.
(9VAC5-80-110)
33. **Steam Generating Plant Requirements - (emission unit ID#B-1, 4, 6, 7, 8 & 9) - Recordkeeping** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier;

- b. The date on which the distillate oil was received;
- c. The quantity of distillate oil delivered in the shipment;
- d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications (D396) for fuel oil numbers 1 and 2; and
- e. The maximum sulfur content of the distillate oil.

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition 12. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.
(9VAC5-80-110, 60.48c(f) and Condition 20 of 5/30/2018 Permit)

34. **Steam Generating Plant Requirements - (emission unit ID# B-6, 7 & 8) - Recordkeeping** - The permittee shall obtain a certification for each shipment of biomass. Each certification log entry shall include the following:

- a. The name of the fuel supplier;
- b. The date on which the fuel was received;
- c. The quantity and type of fuel delivered in the shipment;
- d. A statement that the biomass complies with the definition as stated in Condition 13 .

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition 13. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.
(9VAC5-80-110 and Condition 21 of 5/30/2018 Permit)

35. **Steam Generating Plant Requirements - (emission unit ID# B-1, 4, 6, 7, 8 & 9) - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Piedmont Regional Office. These records shall include, but are not limited to:

- a. Monthly and annual throughput of distillate oil, natural gas, propane and biomass for each boiler, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

- b. All fuel supplier certifications.
- c. Monthly emissions calculations for hazardous air pollutants (HAPs) from the boilers (B-6, B-7, B-8, B-1, B-4 and B-9) using calculation methods approved by the Piedmont Regional Office to verify compliance with the ton/yr emissions limitations in Condition 22.
- d. Operation and control device monitoring records for the fabric filter and leak detection system on boiler B-8 as required in Condition 29.
- e. Results of all stack tests, visible emission evaluations and performance evaluations; and
- f. Scheduled and unscheduled maintenance and operator training.
- g. The results of the monthly opacity observations for the boilers (B-1, 4, 6, 7, 8 & 9) and details of any corrective action (s) taken as a result.
- h. The results of the weekly monitoring device observations associated with boilers (B-6 & 7) and details of any corrective action (s) taken as a result.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-50-50, 40 CFR 60.48c(e) & (g)(2), 9VAC5-80-110, and Condition 37 of 5/30/18 Permit)

36. **Steam Generating Plant Requirements – (emission unit ID# B-8) - Testing-** Initial performance tests shall be conducted for PM, PM10 and PM2.5 from the B-8 boiler stack to determine compliance with the emission limits contained in Condition 20. The tests shall be performed, and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. Tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30, and the test methods and procedures contained in each applicable section or subpart listed in 9 VAC 5-50-410. The details of the tests are to be arranged with the Piedmont Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. For lab testing only, not field testing, samples taken as required by this permit shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories. One copy of the test results shall be submitted to the Piedmont Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit.
(9VAC5-50-30, 40 CFR 63.11210(a) & (d), 9VAC5-80-110, and Condition 40 of 5/30/18 Permit)

37. Steam Generating Plant Requirements – (emission unit ID# B-8) - Testing-

Concurrently with the initial performance tests, Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9, shall also be conducted by the permittee on the following equipment: B-8 boiler stack. Each test shall consist of 30 sets of 24 consecutive observations (at 15 second intervals) to yield a six minute average. The details of the tests are to be arranged with the Piedmont Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. The evaluation shall be performed and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. Should conditions prevent concurrent opacity observations, the Piedmont Regional Office shall be notified in writing, within seven days, and visible emissions testing shall be rescheduled within 30 days. Rescheduled testing shall be conducted under the same conditions (as possible) as the initial performance tests. One copy of the test result shall be submitted to the Piedmont Regional Office within 60 days after test completion and shall conform to the test report format enclosed with this permit. (9VAC5-50-30, 9VAC5-80-110, and Condition 41 of 5/30/18 Permit)

38. Steam Generating Plant Requirements - (emission unit ID#B-8) - Reporting – The permittee shall furnish written notification to the Piedmont Regional Office of:

- a. The actual start-up date of boiler B-8 within 15 days after such date.
- b. The anticipated date of performance tests of the B-8 boiler postmarked at least 30 days prior to such date.

Copies of the written notification referenced in items a and b above are to be sent to:

Associate Director
Office of Air Enforcement and Compliance Assistance (3AP20)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(9VAC5-50-50, 40 CFR 60.48c(a), 40 CFR 63.11225(a)(1), 9VAC5-80-110 and Condition 42 of 5/30/18 Permit)

39. Steam Generating Plant Requirements - (emission unit ID#B-6, 7 & 8) - Reporting -

The permittee shall submit fuel quality reports for fuel oil and biomass burned by boilers B-6, B-7, and B-8 to the Piedmont Regional Office within 30 days after the end of each semi-annual period, beginning with January and July. If no shipments of distillate oil and/or biomass were received during the semi-annual period, the report shall consist of the dates included in the semi-annual period and a statement that no oil and/or biomass was received during the semi-annual period, the report shall include:

- a. The dates included in the semi-annual period;

- b. A copy of all fuel supplier certifications for all shipments of distillate oil received during the semi-annual period or a semi-annual summary from each fuel supplier that includes the information specified in Condition 14 for each shipment of distillate oil; and,
- c. A copy of all fuel supplier certifications for all shipments of biomass received during the semi-annual period or a semi-annual summary from each biomass supplier that includes the information specified in Condition 15 for each shipment of biomass; and
- d. A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the distillate oil and biomass burned at the facility.

(9VAC5-50-50, 40 CFR 60.48c(j), 9VAC5-80-110 and Condition 38 of 5/30/18 Permit)

Emergency Engine-Generator Requirements - (G1-G19)

- 40. **Emergency Engine-Generator Requirements - (emission unit ID#G1-19) – Limitations**
– Visible emissions from each of the emergency engine-generators shall not exceed 20 percent opacity, except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (reference 40 CFR 60 Appendix A).
(9 VAC 5-80-110 and 9 VAC 5-50-80)
- 41. **Emergency Engine-Generator Requirements - (emission unit ID#G1-19) – Federal Requirements** - The emergency engine-generators are subject to the National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (MACT, Subpart ZZZZ). The requirements are as follows:

Unit	Year	Citation	Requirement
G1 G2 G3 G4 G5 G6 (diesel)	1995 2003 1998 2006 2003 1992	63.6585(f)(3) 63.6640(f)	Existing institutional emergency stationary RICE at area source, must meet definition of emergency stationary RICE in 63.6675 and operate as specified in 63.6640(f).
G7 (propane)	2010	63.6590(a)(2)(iii) 63.6590(c)(1)	A new stationary RICE at area source, must meet requirements of 40 CFR 60 Subpart JJJJ

Unit	Year	Citation	Requirement
G8-G19 (diesel)	G8-2010, G9-2011, G10, 11, 13, 14, 15, 16-2007, G12 & G17-2013, G18- 2006 & G19-2017	63.6590(a)(2)(iii) 63.6590(c)(1)	A new stationary RICE at area source, must meet requirements of 40 CFR 60 Subpart IIII

(9VAC5-80-110 and 40 CFR 63, Subpart ZZZZ)

42. **Emergency Engine-Generator Requirements - (emission unit ID#G7) – Federal Requirements** - The emergency engine-generator is subject to the Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (NSPS, Subpart JJJJ). The requirements are as follows:

Unit	Citation	Requirement
G7- propane, 8kW, year-2010	60.4233(a), 60.4231(a)(3), 90.103(a) & Table 3, 90.105 60.4234 60.4237(c) 60.4243(a)	A SI ICE <19kW & >225 cc must meet emission standards & requirements for nonhandheld engines, install a non-resettable hour meter, & demonstrate compliance by meeting either 60.4243(a)(1) or (a)(2).

(9VAC5-80-110 and 40 CFR 60, Subpart JJJJ)

43. **Emergency Engine-Generator Requirements - (emission unit ID#G8-19) – Federal Requirements** - The emergency engine-generators are subject to the Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (NSPS, Subpart IIII). The requirements are as follows:

Unit	Citation	Requirement
G8- diesel, 100kW, year-2010 G9- diesel, 83kW, year-2011 G19-diesel, 100kW, year 2017	60.4205(b), 60.4202(a)(2), 89.112 Table 1 60.4206 60.4207(b) & 80.510(b) 60.4209(a) 60.4211(a),(c),(f) & (g) 60.4218 & Table 8	An emergency CI ICE with a displacement <30 liter/cylinder & <130 kW must meet Tier 3 emission standards & fuel requirements, install a non-resettable hour meter and comply by operating as required by 60.4211.
G10-diesel, 150kW, year 2007 G11-diesel, 250kW, year 2007 G12-diesel, 300kW, year 2013 G13&14-diesel, 200kW each, year 2007	60.4205(b), 60.4202(a)(2), 89.112 Table 1 60.4206 60.4207(b) & 80.510(b) 60.4209(a) 60.4211(a),(c),(f) & (g) 60.4218 & Table 8	An emergency CI ICE with a displacement <30 liter/cylinder & <450 kW must meet Tier 3 emission standards & fuel requirements, install a non-resettable hour meter and comply by operating as required by 60.4211.

Unit	Citation	Requirement
G15&16-diesel, 60kW each, year 2007	60.4205(b), 60.4202(a)(2), 89.112 Table 1 60.4206 60.4207(b) & 80.510(b) 60.4209(a) 60.4211(a),(c),(f) & (g) 60.4218 & Table 8	An emergency CI ICE with a displacement <30 liter/cylinder & <75 kW must meet Tier 2 emission standards & fuel requirements, install a non-resettable hour meter and comply by operating as required by 60.4211.
G17-diesel, 40kW, year 2013	60.4205(b), 60.4202(a)(2), 89.112 Table 1 60.4206 60.4207(b) & 80.510(b) 60.4209(a) 60.4211(a),(c),(f) & (g) 60.4218 & Table 8	An emergency CI ICE with a displacement <30 liter/cylinder & <75 kW must meet Tier 3 emission standards & fuel requirements, install a non-resettable hour meter and comply by operating as required by 60.4211.
G18-diesel, 350kW, year 2006	60.4205(a) & Table 1 60.4206 60.4207(b) & 80.510(b) 60.4209(a) 60.4211(a),(c),(f) & (g) 60.4218 & Table 8	A pre-2007 emergency CI ICE with a displacement <10 liter/cylinder must meet Table 1 emission standards & fuel requirements, install a non-resettable hour meter and comply by operating as required by 60.4211.

(9VAC5-80-110 and 40 CFR 60, Subpart IIII)

44. **Emergency Engine-Generator Requirements - (emission unit ID#G1-19) - Monitoring**
- The permittee shall perform a visible emission observation (VEO) in accordance with 40 CFR 60, Appendix A, Method 22 on the exhaust stack of each of the emergency engine-generators at least one time per month during periods of normal operation that the emergency engine-generators are operated. If visible emissions are observed, the permittee shall take timely corrective actions such that the emergency engine-generators resume operation with no visible emissions, or perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the emergency engine-generators do not exceed 20 percent opacity. The VEE shall be conducted for a minimum of six minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the emergency engine-generators resume operation with visible emissions of 20 percent or less. The permittee shall maintain an observation log to demonstrate compliance. The log shall include the date and time of the observations, whether or not there were visible emissions, any VEE recordings and any necessary actions.
(9 VAC 5-80-110)
45. **Emergency Engine-Generator Requirements - (emission unit ID#G1-19) - Recordkeeping** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Piedmont Regional Office. These records shall

include, but are not limited to the results of the monthly opacity observations for the emergency engine-generators and details of any corrective action (s) taken as a result. These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-80-110 and 9 VAC 5-50-50)

Facility Wide Conditions

46. **Facility Wide Conditions - Limitations** - At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:
- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
 - b. Maintain an inventory of spare parts.
 - c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
 - d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.
(9VAC5-80-110, 9 VAC 5-50-20 E and Condition 48 of 5/30/18 Permit)

47. **Facility Wide Conditions - Testing** - The steam generating facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. This includes constructing the facility/equipment such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested at the appropriate locations and safe sampling platforms and access shall be provided.
(9VAC5-50-30, 9VAC5-80-110 and Condition 39 of 5/30/18 Permit)
48. **Facility Wide Conditions - Testing** - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9VAC5-80-110)

Insignificant Emission Units

49. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9VAC5-80-720B)	Rated Capacity (9VAC5-80-720C)
Kiln-1	Wood Fired Ceramics Kiln	9 VAC 5-80-720B	PM, VOC, NO _x , SO ₂ , CO	-
SD-1	Saw Dust Handling Equipment/Truck Unloading	9 VAC 5-80-720B	PM-10 and PM 2.5	-

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9VAC5-80-110. (9VAC5-80-110)

Permit Shield & Inapplicable Requirements

50. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
N/A		No inapplicable requirements were identified in the Title V permit application.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law. (9VAC5-80-110 and 9VAC5-80-140)

General Conditions

51. **General Conditions - Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9VAC5-80-110)
52. **General Conditions - Permit Expiration** - This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9VAC5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)
53. **General Conditions - Permit Expiration** - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)
54. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9VAC5 Chapter 80, until the Board takes final action on the application under 9VAC5-80-150.
(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)
55. **General Conditions - Permit Expiration** - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.
(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)
56. **General Conditions - Permit Expiration** - If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)
57. **General Conditions - Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the

deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

58. **General Conditions -Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
- a. The date, place as defined in the permit, and time of sampling or measurements;
 - b. The date(s) analyses were performed;
 - c. The company or entity that performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of such analyses; and
 - f. The operating conditions existing at the time of sampling or measurement.
- (9VAC5-80-110)
59. **General Conditions -Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
- (9VAC5-80-110)
60. **General Conditions -Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:
- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and
 - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - i. Exceedances of emissions limitations or operational restrictions;
 - ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or

Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,

- iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."
(9VAC5-80-110)

61. **General Conditions - Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

- a. The time period included in the certification. The time period to be addressed is January 1 to December 31;
- b. The identification of each term or condition of the permit that is the basis of the certification;
- c. The compliance status;
- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;
- e. Consistent with subsection 9VAC5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;
- f. Such other facts as the permit may require to determine the compliance status of the source; and
- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address: R3_APD_Permits@epa.gov

(9VAC5-80-110)

62. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Piedmont Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 60 of this permit. (9VAC5-80-110 F. 2)
63. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall no later than four daytime business hours after the malfunction is discovered, notify the Piedmont Regional Office such failure or malfunction and within 14 days provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9VAC5-40-50 C and 9VAC5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9VAC5-40-40 and 9VAC5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Piedmont Regional Office. (9VAC5-80-110 and 9VAC5-20-180)
64. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit. (9VAC5-80-110)
65. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application. (9VAC5-80-110)
66. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (9VAC5-80-110)
67. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State

Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9VAC5-80-110, 9VAC5-80-190 and 9VAC5-80-260)

68. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9VAC5-80-110)
69. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9VAC5-80-110)
70. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.
(9VAC5-80-110)
71. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit under 9VAC5-80-50 through 9VAC5-80-300 was issued shall pay permit fees consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9VAC5-80-2310 through 9VAC5-80-2350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9VAC5-80-2340, adjusted annually by the change in the Consumer Price Index.
(9VAC5-80-110, 9VAC5-80-340 and 9VAC5-80-2340)
72. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
- b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
- c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
- d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9VAC5-50-90 and 9VAC5-80-110 and Condition 7 of 5/30/18 Permit)

73. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9VAC5-80-110)
74. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1.
(9VAC5-80-110)
75. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
- c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
- d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9VAC5-80-110)

76. **General Conditions - Reopening for Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:

- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.

(9VAC5-80-110)

77. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9VAC5-80-110 and 9VAC5-80-150)

78. **General Conditions - Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.
(9VAC5-80-110 and 9VAC5-80-160)
79. **General Conditions - Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200.
(9VAC5-80-110 and 9VAC5-80-160)
80. **General Conditions - Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200.
(9VAC5-80-110 and 9VAC5-80-160)
81. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9VAC5-80-110, 9VAC5-80-190 C and 9VAC5-80-260)
82. **General Conditions - Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9VAC5-80-110 and 9VAC5-80-80 E)
83. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(9VAC5-80-110 and 40 CFR Part 82)
84. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following:

Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9VAC5-60-70 and 9VAC5-80-110)

85. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(9VAC5-80-110 and 40 CFR Part 68)
86. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9VAC5-80-110)
87. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
 - a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
 - c. The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.
(9VAC5-80-110)